



Facility Permit No: SLAS-91-04  
K.T. Moore Septic Tank Service  
Permit to Operate  
December 31, 2014  
Page 1 of 4

North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

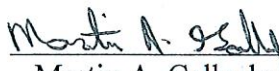
**PERMIT TO OPERATE A SEPTAGE LAND  
APPLICATION SITE**

K.T. Moore Septic Tank Service  
Michael & Stephen Dickerson  
712 N. Chavis Road  
Kittrell, NC 27544

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-91-04** located on US Hwy 1 in Vance County at approximate position 36.23120° N latitude and -78.44474° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 12/31/2014

  
Martin A. Gallagher, Branch Head  
Composting & Land Application Branch

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

### CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Michael & Stephen Dickerson and approved by the Division of Waste Management. **The 8.8-acre site shall be divided into Field 1 (4.2 acres) and Field 2 (4.6 acres).** Both fields are established in a permanent cover of a mixture of tall fescue/orchardgrass. Hay shall be harvested from the site whenever the grasses reach 12 to 15 inches in height. At least two harvests of hay shall be made annually. The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Michael & Stephen Dickerson in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 45 foot fescue border shall be maintained between application areas and trees. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.



7. **This site contains approximately 8.8 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 440,000 gallons may be applied to this site. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 8,461 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.

14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on December 31, 2019.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.





North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

December 31, 2014

John E. Skvarla, III  
Secretary

Michael & Stephen Dickerson  
K.T. Moore Septic Tank Service  
712 N. Chavis Road  
Kittrell, NC 27544

**RE: SLAS permit renewal  
K.T. Moore Septic Tank Service  
SLAS-91-04  
US Hwy 1 in Vance County**

Dear Messrs. Dickerson:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Vance County. Your application has been approved and your permit, # **SLAS-91-04**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **December 31, 2019**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist  
Division of Waste Management, NCDENR

Enclosures

cc: Albert Dickerson, landowner  
Vance County Health Department

h:\cla\septage\slasper\9104cl14p.doc



# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

## I. Site and Operator Information

1. Applicant Michael W. Dickerson & Stephen W. Dickerson  
Address 712 N. Chavis Rd  
Kittrell N.C. 27544  
Phone 252-436-1859 Mike 252-425-0320 Stephen

2. Contact person for site operation (if different from applicant):  
Title or position \_\_\_\_\_ Phone \_\_\_\_\_  
Address \_\_\_\_\_

3. Landowner Albert V. Dickerson 252-432-6882 Cell  
Address 724 N. Chavis Rd  
Kittrell N.C. 27544 252-438-8965 Home

4. Site Location: County Vance State Road Number US Hwy 1 in  
Directions to site: Vance County 1m. N of Kittrell Town or Kittrell Gro Store  
36.2312° N latitude + 78.4447° W longitude

5. Indicate whether request is: new \_\_\_\_\_ renewal ✓ 5 yrs modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: 91-04 permit expiration date: 8-10-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 8.8 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None ✓, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

RECEIVED  
APR 25 2014  
DIVISION OF WASTE MANAGEMENT  
FAYETTEVILLE REGIONAL OFFICE



## II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): WARREN COUNTY WWTP 738 US Hwy 401 South WARRENTON NC. 27589
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks ☒
  - (b) Grease trap pumpings \_\_\_\_\_
  - (c) Portable toilet waste \_\_\_\_\_
  - (d) Commercial / Industrial septage \_\_\_\_\_
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Hydrated lime stabilization of domestic septage waste @ Ph level 12 for 30min prior to land application.
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): SPREADER ON TRUCK. TRUCK shall be in motion for discharge to occur.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): This site is AGRICULTURAL land.

## III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Mike Dickerson  
Step Dick

Signature\*\*\*  
Mike Dickerson  
Stephen Dickerson

Print name

4-22-14

Date

owners

Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0837(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0837(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.



## Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources  
Division of Waste Management - Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Albert V. Dickerson (name of site owner) hereby certify that I am the owner of \_\_\_\_\_ acres of land located \_\_\_\_\_ and identified by Book 433 Page 543 (book and page of recorded deed or tax map parcel) and that I agree to allow \_\_\_\_\_ (name of site operator) to use said land for septage land application for a period of 10 yrs (length of time), beginning 8-1-14 (month, day and year) and that I have read the North Carolina Septage Management Rules \*, and I understand and agree to maintain the restrictions on land use after septage land application ends \*\*. I further understand that no septage may be land applied until the Division of Waste Management has issued a permit for a septage land application site. The above described property is owned solely by me or jointly with \_\_\_\_\_ (names of all co-owners, or state none).

Signature of landowner Albert V. Dickerson Date 4/10/14

Signature of landowner \_\_\_\_\_ Date \_\_\_\_\_

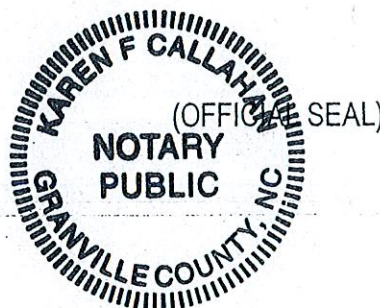
Sworn to and subscribed before me this 10 day of April, 20 14.

Karen F. Callahan  
(Notary Public)

My Commission expires: 7/18/18

\* 15A N.C. Admin. Code 13B Section .0800

\*\* As required by Rule .0843





The following is the Nutrient Management Plan and Erosion and Run-Off Control plan for a septage receiver site operated by Michael Dickerson and Stephen Dickerson, 712 N. Chavis Road, Kittrell, NC 27544.

**A. General Information**

1. Periodic sampling (at least 3 per year) of septage will be submitted to an appropriate waste analysis laboratory to determine nutrient content including N, P, K, Mn, Zn, Cu, Ni, Cd, Pb, Na, S, Ca, and Mg. The N.C. Department of Agriculture and Consumer Services, Agronomic Division, will analyze such samples for a nominal fee of \$4.00 per sample. Private labs can also perform these analyses.
2. Fields 1 and 2 are located on US Highway 1 just north of Kittrell. Field 1 is 4.2 acres and Field 2 is 4.6 acres.
3. The dominant soil series in both fields is Appling.
4. Septage will not be applied when the site is untrafficable. "Untrafficable" is defined as soil that will allow a loaded truck to leave a depression greater than 3 inches in depth in sod.
5. Septage storage shall be provided to account for the average volume of septage pumped per week or an alternative plan such as disposal at a licensed waste treatment plant can be utilized.
6. The soil should be sampled and analyzed at least annually. The N.C. Department of Agriculture and Consumer Services, Agronomic Division performs such analyses at no charge. Separate samples should be collected from the buffer areas as compared to areas where septage is being applied.

**B, Crops to be grown and approximate planting and harvesting times.**

1. Fields 1 and 2 should be maintained in a permanent cover such as tall fescue or tall fescue/orchardgrass. September and October are the best months to establish cool season grasses. Reseeding can also be done from mid February through March 31<sup>st</sup>. When reseeding areas where the grass has died or become thin, a minimum fescue rate of 35 pounds per acre for fall planting is recommended. Bare and weak areas should be reseeded as needed to maintain a good sod cover. 80% groundcover of fescue shall be maintained for land application and recognizing that fescue planted outside of the fall and spring windows is not likely to survive.
2. At least two harvest of hay and possibly three are expected annually. The tall fescue or tall fescue/orchardgrass should be harvested for hay when it reaches a height of 12 to 15 inches.
3. A 30-day waiting period must be observed between the last application of septage and harvest of the hay.



### C. Nitrogen needs of the crops to be grown

R.Y.E. = Realistic Yield Expectations

N. App. Rate = Suggested Nitrogen (N) application rate based on R.Y.E.  
for soil type.

Field	Crop	RYE		N Appl. Rate		Reduction Factor		Pounds N/Acre
Field #1	Fescue/O'grass	4.0	X	45 lbs	X	.75	=	135.0 N/A
Field #2	Fescue/ O'grass	4.0	X	45 lbs	X	.75	=	135.0 N/A

### D. Relative Application Rates for Fields 1 & 2

Month	Field #1	Field #2
January	Low	Low
February	Medium	Medium
March	High	High
April	High	High
May	Medium	Medium
June	Medium	Medium
July	Low	Low
August	Low	Low
September	High	High
October	Medium	Medium
November	Medium	Medium
December	Low	Low

None = 0 gallons; Low = 5,000 gallons; Medium = 10,000 gallons; High = 15,000 gallons

Note: Cumulative application rate is not to exceed the permitted application rate.

Annual application rate is not to exceed 50,000 gallons per acre.

### E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by spreading with vacuum pump spreader on truck under pressure.

### F. Additional Fertility Requirements

1. If maximum yield production is desired, additional fertilizer may be needed. Soil test and apply fertilizer according to test results for maximum production.



2. The bugger area should be fertilized according to soil test only. The buffer area should never receive septage.


#### G. Harvest of Crops and Use

1. The fescue/orchardgrass will be harvested for hay whenever it reaches 12 to 15 inches in height.
2. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about mid-April each year, septage will be applied strictly to Field 2 while Field 1 is undisturbed for 30 days. After 30 days the fescue on Field 1 will be harvested and septage application switched to Field 1. After an additional 30 days, in mid-June, the fescue will be harvested from Field 2. The same rotation pattern will be followed for all subsequent harvests.
3. The hay can be utilized as a livestock feed.

#### H. Soil Erosion and Run-Off Control

A permanent grass sod must be established and maintained for borders and areas where septage will be applied. Slopes run 6-8% A 45 foot fescue border shall be maintained between application area and trees. This border shall be maintained for Fields 1 and 2.

Submitted by:

  
Michael Dickerson, Site Operator

Date: 4-22-14

  
Stephen Dickerson, Site Operator

Date: 4-22-14



